## PATENT COOPERATION TREATY PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  LAM/24677.1	FOR FURTHER ACTION	sce Form PCT/ISA/220 s well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/SG2004/000161	31 May 2004	2 June 2003			
Applicant MUI, Chin Pang Richard					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This international search report consists of a	total of 4 sheets.	·			
It is also accompanied by a copy of each prior art document cited in this report.					
1. Basis of the report					
a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filled, unless otherwise indicated under this item.					
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.					
3. Unity of Invention is lacking (	S& BOK NO. III).				
4. With regard to the title,					
X the text is approved as submitte	d by the applicant.	•			
the text has been established by this Authority to read as follows:					
		•			
•		• •			
		· · ·			
5. With regard to the abstract,					
the text is approved as submitte	d by the applicant.				
the text has been established, are month from the date of mal	cording to Rule 38.2(b), by this Authority as i ling of this international search report, submit	t appears in Box No. IV. The applicant may, within comments to this Authority.			
6. With regard to the drawings,					
4. the figure of the drawings to be published with the abstract is Figure No. 1					
as suggested by the ap	plicant.				
as selected by this Aut	harity, because the applicant failed to suggest	a figure.			
as selected by this Aut	hority, because this figure better characterizes	the invention.			
b aons of the figures is to be publ	ished with the abstract.				

Form PCT/ISA/210 (first sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2004/000161

A.	.CLASSIFICATION OF SUBJECT MATTER		•		
Int. Cl. 7:	F03B 13/00, 9/00, 17/06				
According to	International Patent Classification (IPC) or to b	ooth national classification	on and IPC	·	
В	FIELDS SEARCHED		•		
Minimum documentation searched (classification system followed by classification symbols)					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Refer electronic database consulted below					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI - IPC: F03B 1/-, 3/-, 7/-, 9/-, 17/00, 17/06 and keywords tower or tank or reservoir					
C.	DOCUMENTS CONSIDERED TO BE RELEVAN	ĬΤ .			
Category*	Citation of document, with indication, where	appropriate, of the relev	vant passages	Relevant to claim No.	
A	US 4054031 A (JOHNSON) 18 October	1977 :		-	
A	US 4345160 A (SMITH) 17 August 1982				
**	00 707010011 (0.11111) 1. 1.11111111111111111111111111	•			
A	GB 2267317 A (MIRZA) 1 December 19	) <b>93</b>			
•					
A	Downer Abstract Assession No. 08 5400	20/46 store 055 DTI	, (21004P2 (C)		
<b>A</b>	Derwent Abstract Accession No 98-5409 (GORLOV) 10 April 1998	20/40, ciass (233, RQ	210 <del>040</del> 2 C1		
		•	·		
<u> </u>		•			
Ft	urther documents are listed in the continuat	ion of Box C	See patent family anno	x	
* Special categories of cited documents:  "A" document delining the general state of the art which is "T" later document published after the international filling date or priority date and not in					
	ideted to be of particular relevance conflict with the application but cited to understand the principle or theory underlying the invention				
	plication or patent but published on or after the "X" mal filing date	or cannot be considered to	vance; the claimed invention cannot i involve an invantive step when the d		
	alone  recurs which may throw doubts on priority claim(s)  "Y" document of particular relevance; the elabred invention estinates to				
another c	ch is cited to establish the publication date of Involve an inventive step when the document is combined with one or more of reliation or other special reason (as specified) such documents, such combination being obvious to a person skilled in the art selecting to an oral disclosura, use, exhibition		one or more other illed in the art		
or other n	nisims "&"	document member of the sa	me patent family		
but later t	t published prior to the international filing date	<del>-</del>			
Date of the actua 8 September :	al completion of the international search 2004	Date of mailing of th	ie international search report	CD 1001	
<del>•</del>	premiser 2004  9 and mailing address of the ISA/AU . Authorized officer		EP 2014		
AUSTRALIAN PATENT OFFICE			}		
PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@lpaustralla.gov.an		R. SUBBARAYAN			
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Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No. PCT/SG2004/000161

Box No. II Observations where certain claims were found unsearchable (Continuation of Item 2 of Itest sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. Clairus Nos.:				
because they relate to subject matter not required to be searched by this Authority, namely:				
2. Claims Nos.:				
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3. Claims Nos.:				
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)				
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
Anna				
1. Claims 1-21 are directed to a portable hydro-generator including a curved tubular housing with a drive portion and a return portion, and a plurality of paddles wherein the drive portion has a larger diameter than the return portion. It is considered that the drive portion having a larger diameter comprises a first "special technical feature".				
Claims 22-23 are directed to a paddle, adaptable to be used in the invention of claim 1 wherein the paddle includes seals to prevent leakage and studs to increase the effective surface area. It is considered that these features of the paddle comprises a second special technical feature. Please note that the words adaptable to be used in the invention of claim 1 does not limit the scope of claim 22 to include the features of claim 1.				
These groups are not so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which define a contribution over the prior art. The common concept linking together these groups of claims is a paddle having a linkage to allow attachment to a subsequent paddle. However this concept is not novel in the light of many specifications eg. GB 2267317 A (Mirza) 1 December 1993. Therefore these claims lack unity a posteriori.				
postares.				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-21				
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  X  No protest accompanied the payment of additional search fees.				

Box No. IV Text of the Abstract (Continuation of item 5 of the first sheet)

A portable hydro-generator (100), for the generation of power, including a tower (10) filled with a driving fluid (110), a semi-scaled curved tubular housing (80) with a drive portion (81) and a return portion (82) primed with a fluid (70), said drive portion (81) having a larger diameter than the return portion (82), an inlet means (60) to allow said fluid to enter said tubular housing (80), a plurality of paddles (30) to harness the kinetic energy of the fluid entering the curved tubular housing, a linkage assembly (34) to link said plurality of paddles, a drive chamber (83), a sprocket (50) within said drive chamber (83) to engage a portion of said paddles, and an output power generator attached to said sprocket. A paddle (30) adapted to be used in the hydro-generator includes a top surface (31), a bottom surface (32), seals (33) to prevent water leakage through the paddles, a linkage bar (34) to allow an attachment of said paddle to subsequent paddles, wherein the top surface of the paddle further includes studs (39) to increase the effective surface area of the top of the paddle.